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To:	Company:	Fax Number:	Tel Number:
Examiner: Carlos N. Lopez	USPTO	+1.571.273.8300	

From: Lawrence J. McClure

Date: November 14, 2006

Time:

Total number of pages incl. cover page: 9

For internal purposes only:

Client number: 81863.0024

Attorney billing number: 1966

Confirmation number: Return Fax to D. Zynn

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MESSAGE:

RE: U.S. Patent Application Serial No.: 10/722,157, Our Ref. 81863.0024

I hereby certify that the following documents:

- Amendment/Amendment Transmittal

are being facsimile transmitted to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, for filing in the above application.

November 14, 2006  
Date of Deposit

  
Diane Zynn

FORM PTO-1083

81863.0024

Patent Application No. 10/722,157

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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NOV 14 2006

In re application of:

Shuzo IWASHITA, et al.

Serial No: 10/722,157

Filed: November 25, 2003

For: PIEZOELECTRIC CERAMICS AND METHOD  
OF MANUFACTURING THE SAME,  
ACTUATOR AND METHOD OF  
MANUFACTURING THE SAME, PRINTING  
HEAD AND INK JET PRINTER

Art Unit: 1731

Examiner: Carlos N. Lopez.

I hereby certify that this correspondence  
is being transmitted via facsimile to  
(571)273-8300:  
Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450 on

November 14, 2006

Date of Deposit

Diane Zynn

Name

Signature

11/14/06

Date

Mail Stop AF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is an amendment in the above-identified application.

☒ No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1) CLAIMS REMAINING AFTER AMENDMENT		(Col. 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Col. 3) PRESENT EXTRA*	LG/SM \$ ENTITY FEE	ADD'L FEE DUE
TOTAL CLAIMS FEE	7	-	30	0	LG=\$50 SM=\$25	\$ 0
INDEPENDENT CLAIMS FEE	1	-	5	0	LG=\$200 SM=\$100	\$ 0
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIMS					LARGE ENTITY FEE = \$360 SMALL ENTITY FEE = \$180	\$ 0
Independent Claims: 13					TOTAL	\$ 0

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest Number Previously Paid For" in THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" in THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box on Col. 1 of a prior amendment or the number of claims originally filed.

- ☐ Please charge the fee of \$\_\_\_ for the additional claim fees to Deposit Account No. 50-1314. A copy of this sheet is enclosed.
- ☐ Please charge the fee of \$\_\_\_ for the \_\_\_\_\_ extension of time to Deposit Account No. 50-1314. A copy of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge any deficiencies of fees associated with this communication or credit any overpayment to Deposit Account No. 50-1314. A copy of this sheet is enclosed.
- ☒ Any filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims
- ☒ Any patent application processing fees under 37 C.F.R. § 1.17

Respectfully submitted,  
HOGAN & HARTSON L.L.P.By: 

Lawrence J. McClure

Registration No. 44,228

Attorney for Applicant(s)

Date: November 14, 2006

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Appl. No. 10/722,157  
Amdt. Dated November 14, 2006  
Reply to Office Action of August 22, 2006

Attorney Docket No. 81863.0024  
Customer No.: 26021

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
Shuzo IWASHITA et al.  
Serial No: 10/722,157  
Confirmation No.: 7015  
Filed: November 25, 2003  
For: PIEZOELECTRIC CERAMICS AND  
METHOD OF MANUFACTURING THE  
SAME, ACTUATOR AND METHOD OF  
MANU-FACTURING THE SAME,  
PRINTING HEAD AND INK JET PRINTER

Art Unit: 1731

Examiner: Carlos N. Lopez

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450, on  
November 14, 2006  
Date of Deposit  
Diane Zynn

Name  
*[Signature]* 11/14/06  
Signature Date

AMENDMENT UNDER 37 C.F.R. § 1.116

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Final Office Action dated August 22, 2006, please amend  
the above-referenced application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on  
page 2 of this paper.

Remarks begin on page 5 of this paper.